

CLAIMS

We Claim:

- 1 1. A computer mouse having a mouse housing for containing mouse
2 electronics, said mouse electronics being configured to acquire mouse
3 movement information and in response thereto to transmit to a computer
4 system monitor cursor control information, said computer mouse
5 comprising:
 - 6 a base member configured primarily to make moving contact with
7 a top surface of a computer pad;
 - 8 a top member being an integral piece and being mechanically
9 coupled with the base member to form the mouse housing
10 and to encase said mouse electronics, said top member
11 further being externally contoured so that it being
12 conforming to the contour of a palm-side surface of a user's
13 hand, when the hand being in a relaxed, neutral condition,
14 with the palm-side surface generally downwardly and
15 horizontally disposed;
 - 16 said top member being mechanically coupled to said base member
17 in that the entire top member in one integral piece being
18 continually biased in a direction generally away from the
19 base member to a first position and that the top member

20 being pushed down toward the base member to a second
21 position by the palm-side surface via wrist action whereby
22 creating a clicking action; and

23 an electronic switch disposed inside the mouse housing being
24 activated by said clicking action and responsively providing
25 information to the mouse electronics for processing and
26 transmitting the monitor cursor control information.

1 2. The computer mouse as recited in Claim 1 wherein said information
2 provided by the electronic switch to the mouse electronics includes a data
3 selection signal.

1 3. The computer mouse as recited in Claim 1 wherein said information
2 provided by the electronic switch to the mouse electronics includes a
3 command execution signal.

1 4. The computer mouse as recited in Claim 1 wherein said clicking action
2 includes a single-click feature.

1 5. The computer mouse as recited in Claim 1 wherein said clicking action
2 includes a double-click feature.

1 6. The computer mouse as recited in Claim 1 wherein said clicking action
2 includes a click-and-drag feature.

1 7. The computer mouse as recited in Claim 1 wherein said mouse housing
2 confines a ball in a manner that the ball rolling over the top surface of the
3 computer pad defining the mouse movement information provided to the
4 mouse electronics.

1 8. The computer mouse as recited in Claim 1 wherein the mouse
2 electronics includes an optical sensing circuit for acquiring the mouse
3 movement information as the computer mouse moving across the top
4 surface of the computer pad.

1 9. The computer mouse as recited in Claim 1 wherein the mouse housing has
2 at least a portion thereof being made of a translucent material in a manner
3 that at least parts of the mouse electronics being visible externally.